



FG-100B

TIP THERMOMETER



The **HAKKO FG-100B Thermometer** measures soldering iron tip temperatures as well as solder pot temperatures and hot air station temperatures (with optional temperature probes). Lightweight, easy to replace sensors provide accurate measurement of tips and nozzles for verification or calibration processes.

The AUTO HOLD feature minimizes individual differences in temperature measurements by automatically ending a measurement once the measurement is stabilized. To preserve battery life, the auto shutoff feature turns the thermometer off when not used for three minutes. The thermometer design allows for easy measurements for right or left handed operators. Another feature of the thermometer allows the user to transmit measurement data through the SEND function, which uses an IR signal to transfer the information to a compatible station that will then automatically offset the set temperature.



FEATURES & BENEFITS

- Auto hold feature minimizes individual measurement differences
- Low battery indicator
- Sensor Failure Indicator
- Quick and easy sensor replacement
- Design allows easy access to sensor from front, right or left sides
- Auto shutoff after 3 minutes
- Able to display either °F or °C
- Measurement counter
- Temperature Send Function (on certain soldering stations only)
- Also sold with a Certificate of Calibration (FG100B-US03)



SPECIFICATIONS For Part No. FG100B-03

Display Units	1°F (Default)	1°C
Range of Measurement*	32 °F - 1300 °F	0 °C - 700 °C
Measurement Tolerance †	±6 °F (in 572 °F - 1112 °F range)	±3 °C (in 300 °C - 600 °C range)
Sensor Type	K (CA) type thermocouple	
Power Supply	006P 9V battery (alkaline cell recommended)	
Dimensions ‡ (W x H x D)	75 x 44 x 140 mm (2.95 x 1.73 x 5.51 in.)	

*FG-100B 191-212 Sensor can only be used to measure temperatures below 500°C / 932°F

† (±10°F/±5°C outside range)

‡ Dimensions exclude protrusions



OPTIONAL PARTS FOR FG-100B

Part No.	Description
A1310	Temperature probe * For measuring the temperature of solder in pots and other applications as required.
A1556	Thermocouple sensor A
A1557	Thermocouple sensor B
C1541	Hot Air Probe
CX1002	Robotic Temperature Probe



CONTENTS For Part No. FG100B-03

Part No.	Description
-- 191-212 -- --	Tip thermometer Sensor (10 pack) 9V battery (for sample use only) Instruction manual



REPLACEMENT PARTS

Part No.	Description
191-212	Sensor (10 pack)



P/N: A1310



P/N: A1556



P/N: A1557

AS5000*
EXTENDED LIFE SENSOR
P/N: AS5000
**Optional Part*



FG-101B

SOLDERING IRON TESTER

The **HAKKO FG-101B Soldering Iron Tester** measures tip temperature, leak voltage, and tip-to-ground resistance. This tester will provide you with quick, and accurate measurements.

The soldering iron tester also features the ability to send measurement information using IR to a compatible station that will automatically calibrate the tip temperature.



FEATURES & BENEFITS

- Resistant to drift and ambient temperature variations
- Highly reliable and accurate measurements
- MAX HOLD function displays maximum value when MAX HOLD button is pressed
- Suitable for Lead-Free solder applications
- AUTO HOLD feature that ends measurements automatically once the tip temperature is stabilized
- Able to switch between °Fahrenheit and °Celsius
- Temperature Sending Function
- Includes a Certificate of Calibration



SPECIFICATIONS For Part No. FG101B-03

Power Consumption	2W / 120V	
Temperature	Measurement Range ¹	32 °F - 1300 °F (0 °C - 700 °C)
	Measurement Tolerance ²	±6 °F (in 572 °F - 1112 °F range) ±3 °C (in 300 °C - 600 °C range)
	Sensor Type	K (CA) type thermocouple
Voltage	Resolution	0.1 mV
	Measurement range	0 - 40 mV (AC)
	Precision	± (5% + 1 digit)
Resistance	Resolution	0.1 Ω
	Measurement range	0 - 40 Ω
	Precision	± (5% + 1 digit)
Display	Liquid crystal display (LCD)	3.5 digit
Dimensions (W x H x D)	211 x 53 x 126 mm (8.31 x 2.09 x 4.96 in.)	

¹Temperature sensor (PN: 191-212) can only be used to measure temperatures below 932 °F (500 °C). To measure higher temperatures, use an applicable temperature probe.

²Measurement tolerance is ±10 °F / ±5 °C for measurements outside the range given for measurement tolerance above.



ACCESSORIES/REPLACEMENT PARTS FOR FG-101B

Part No.	Description
A1310	Temperature probe. For measuring the temperature of solder in pots and other applications as required.
A1556	Thermocouple sensor A
A1557	Thermocouple sensor B
191-212	Sensor (10 Pack)
AS5000	Extended Life Sensor
B2468	Fuse / 125V-5A
B1752	Conduction plate
B1754	Ground Clip
B1950	Conduction Wire



CONTENTS For Part No. FG101B-03

Part No.	Description
-- 191-212 B2468 B1950 B2419 B1754 --	Soldering iron tester Sensor (10 pack) Fuse Conductive wire Power cord Ground clip Instruction manual

